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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,744	09/11/2006	Bartlomiej Jan Pawlak	NL040280	9792
65913 NXP , B.V.	7590 08/15/200	EXAMINER		
NXP INTELLECTUAL PROPERTY DEPARTMENT M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131			FOURSON III, GEORGE R	
			ART UNIT	PAPER NUMBER
			2823	
			NOTIFICATION DATE	DELIVERY MODE
			08/15/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

	Application No.	Applicant(s)				
	10/598,744	PAWLAK, BARTLOMIEJ JAN				
Office Action Summary	Examiner	Art Unit				
	George Fourson	2823				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 A</u>	ugust 2008					
	action is non-final.					
· -						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>12-20</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 4-10</u> is/are rejected.						
7)⊠ Claim(s) <u>3 and 11</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	o-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6) 🔲 Other:					

Art Unit: 2823

The finality of the office action mailed 7/8/08 is withdrawn in view of the new grounds of rejection below.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,2 and 4-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keys et al 2004/0235280.

There is now seen to be a distinction between "inert atoms" and "dopant" or "temporary dopant" which is that inert ions do not interact with interstitial sites.

Keys et al discloses formation of a p-type or n-type transistor [0035, figures 5A and 5B and accompanying description] including implanting Si or Ge ions to amorphize a portion of an n-doped substrate region [0024], implanting F temporary dopant [0025-0026], annealing at 400-800°C for 5-120 seconds [0028] and implanting boron ions [0027] wherein the annealing step is performed either before or after implantation of boron (See figure 3). The recited annealing temperature range overlaps the disclosed range (MPEP 2144.05). The claims do not exclude the further annealing step at 310 of figure 3, for example.

With respect to claim 4, LDD formation is shown in figures 5A and 5B. With respect to claim 7, there is overlap between the recited duration and that disclosed [0028].

With respect to claim 10, the anneal inherently is performed as recited because the same materials are treated in the same manner as in the instant invention.

Applicant argues that there is no alleged difference to necessitate rejection under 35 USC § 103. However, the rejection is made under 35 USC § 103 because the claimed annealing temperature range overlaps the disclosed range instead of being anticipated by the disclosed range.

Applicant argues that overlap of the annealing temperature and annealing time ranges is not sufficient. However, applicant does not allege unexpected results for the claimed ranges and therefor does not point to objective evidence supporting an allegation of unexpected results. It is noted that the ranges disclosed at instant page 6, first paragraph, are completely contained within the disclosed range of Keys et al. In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a *prima facie* case of obviousness exists. *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976); *In re Woodruff*, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990).

The following is an examiner's statement of reasons for allowance: With respect to claim 3, Keys et al fails to disclose or suggest a low temperature anneal between the F and B implantation steps. With respect to claims 12-20, Keys et al discloses a high temperature anneal as necessary to "recover the amorphous region" and to form "a pnjunction" as recited (see figure 3 and col.6, lines 1-8).

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/George Fourson/ Primary Examiner, Art Unit 2823

GFourson August 13, 2008